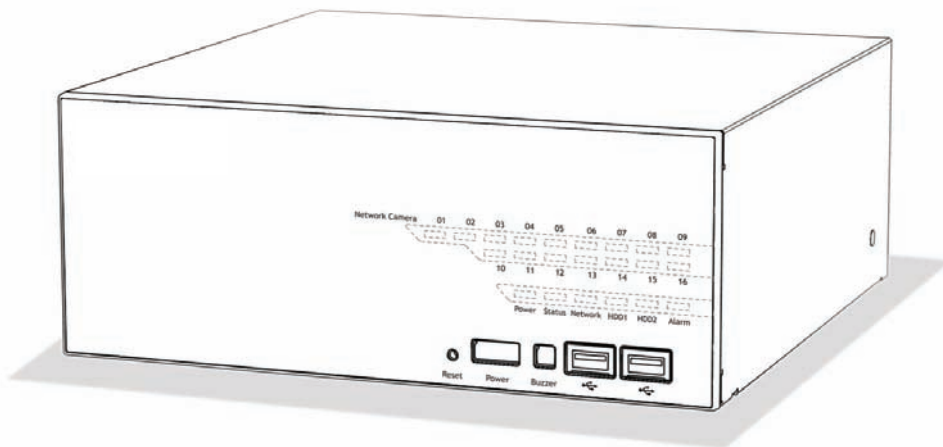


Network Video Recorders

Quick Installation Guide

Model: **NVR8 / NVR16**



Contents

Purpose	3
Package Contents	3
Install Hard Disk	4
System Overview (Front)	7
I/O Ports and RS-485 (Rear)	9
LEDs Definition	10
Connect to the NVR	12
Set up Password	16
Add a Camera	17
Recording Configuration	19
UPS Configuration	23

Purpose

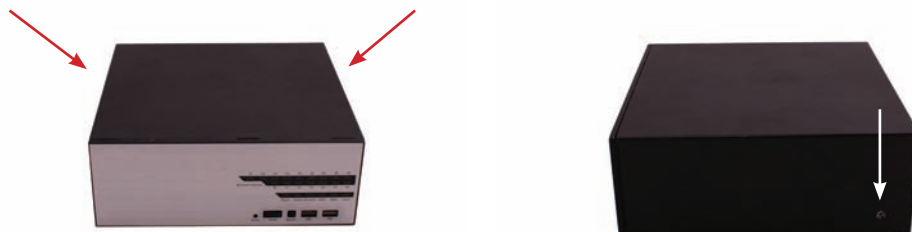
This document provides information for installing the Network Video Recorder on your network. The information included in this document should be sufficient for users to quickly setup the device and start live video monitoring. Users should also be able to perform basic troubleshooting with information provided in this document. For all other aspects of using this product, please consult the user manual available on the CD.

Package Contents

- **Network Video Recorder**
- **Power Cord**
- **Ethernet Cable**
- **Printed Quick Installation Guide**
- **Printed Warranty Card**
- **CD with Adobe Acrobat Reader/Quick Installation Guide/User Manual/NVR Media Player/NVR Search Utility/CMS Software**

Install Hard Disk

Start by removing the screws on the sides:



Push the top housing forward.

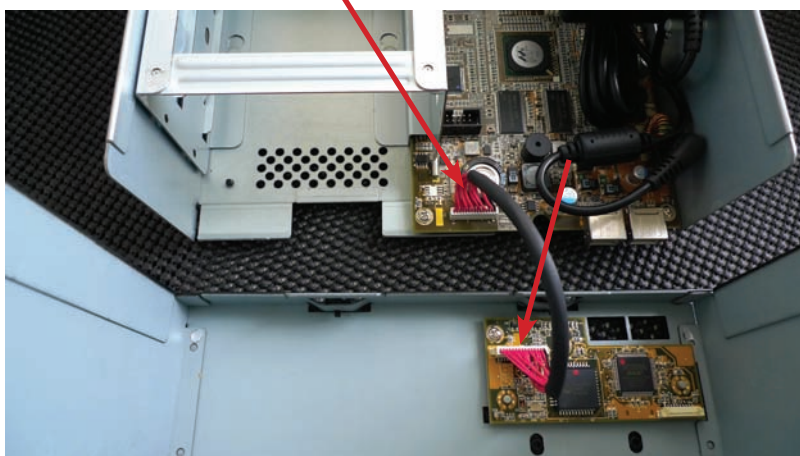


Then lift it up.

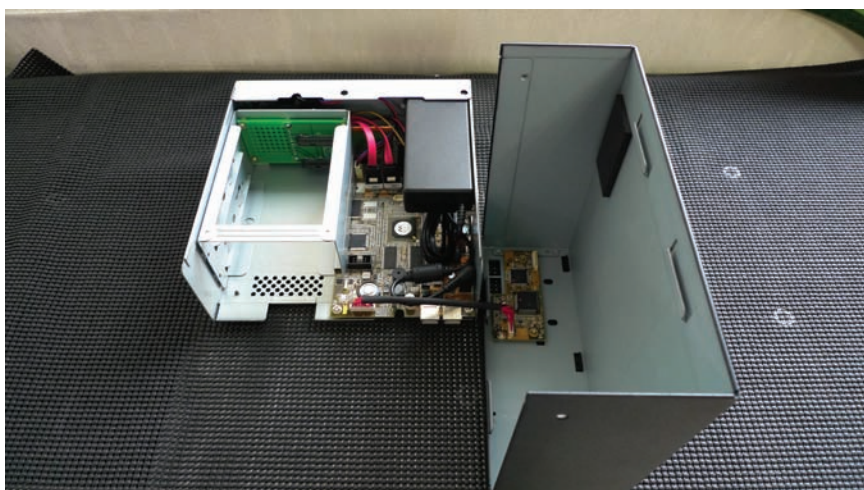


- The NVR supports SATA I or SATA II hard disks.
- The NVR supports max. 1.5TB per hard disk and it supports total of 2 hard disks (3TB).

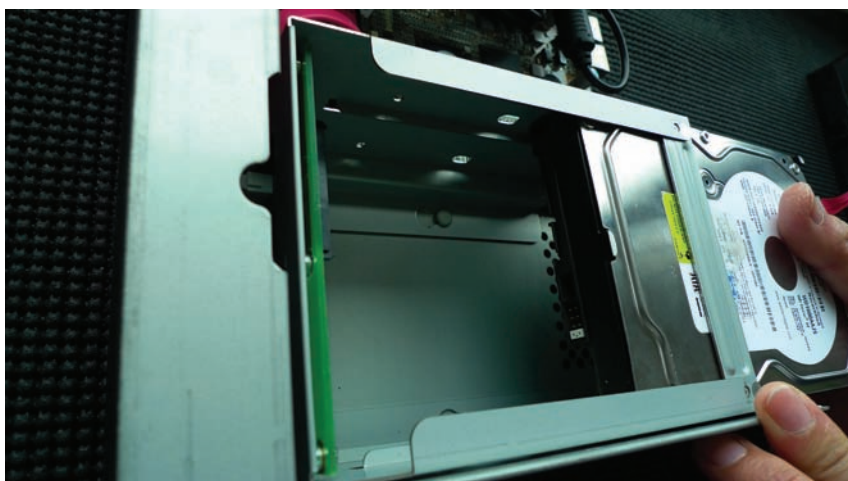
There is a cable connected between the front LED board and the main board.



You can remove it from the main board or simply put the top housing on the side as shown below.



Next, slide the hard drive into the tray.

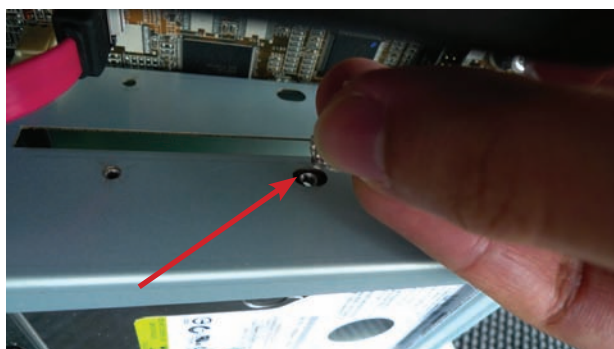


NVR8/16 Embedded
Network Video Recorder

Make sure the SATA connectors are correctly aligned with each other.



Secure the hard drive with the tool-less screw provided in the box.

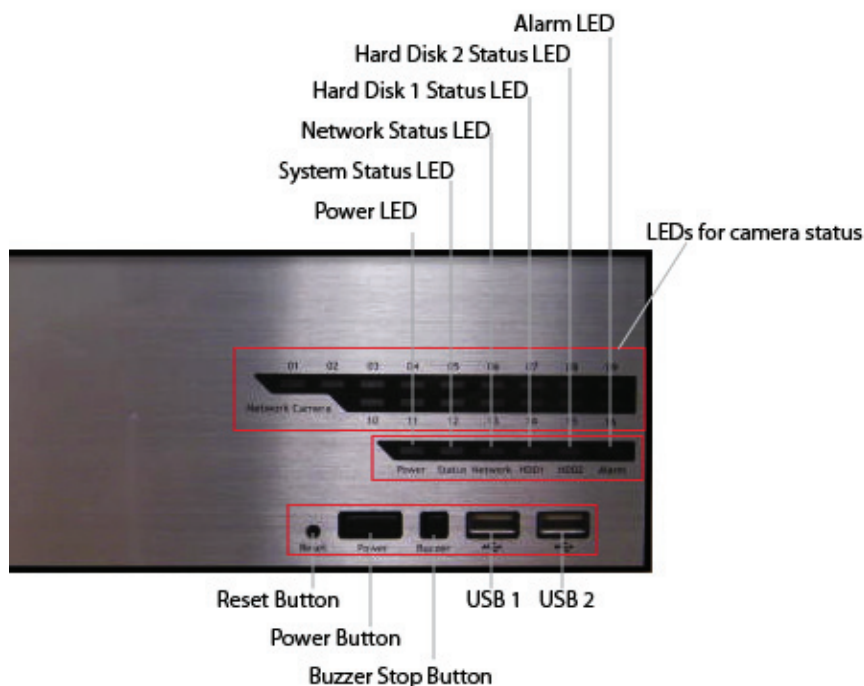


Place the top housing back and secure it to the bottom housing.

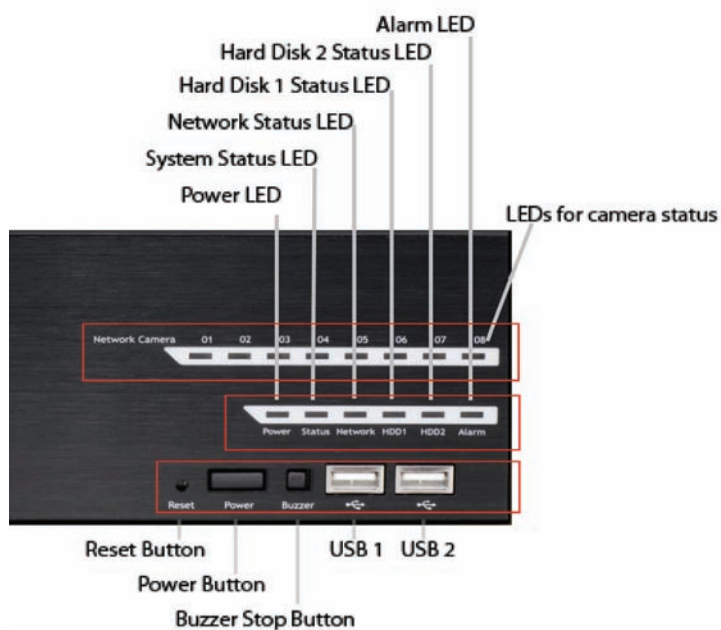


System Overview (Front)

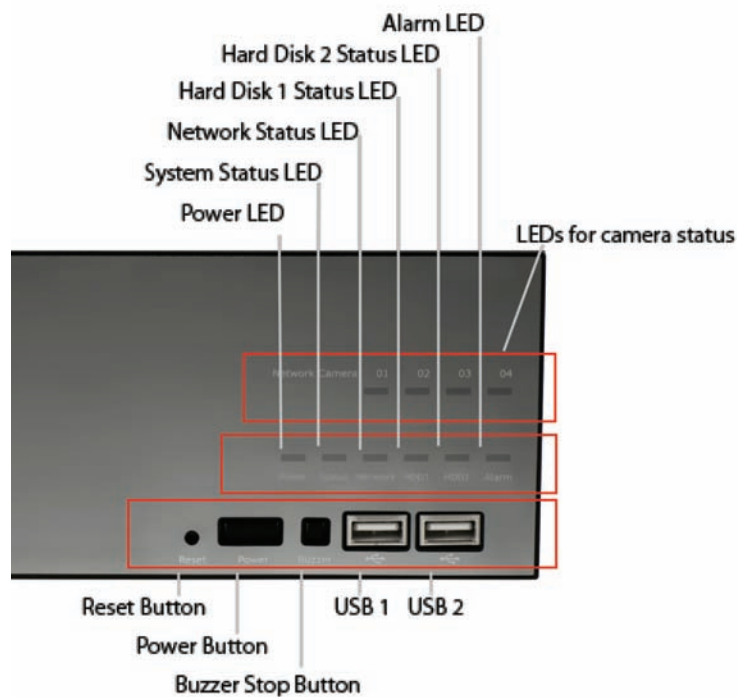
16-Channel



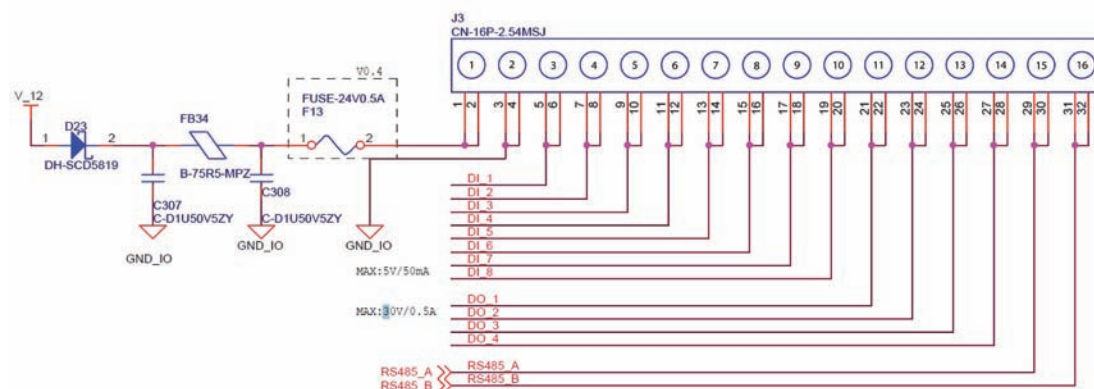
8-Channel



4-Channel



I/O Ports and RS-485 (Rear)



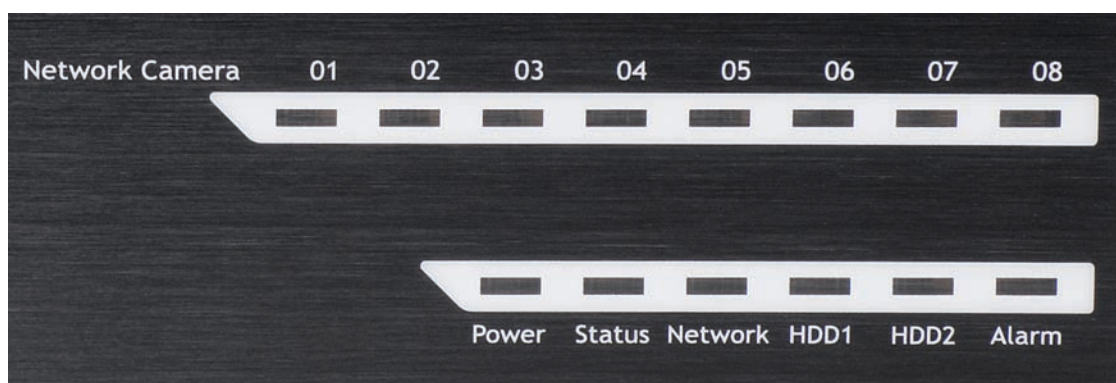
Pin	Signal
1	12V DC
2	GND
3~10	Alarm Input
11	Out 1
12	Out 2
13	Out 3
14	Out 4
15	RS485+
16	RS485-

LEDs Definition

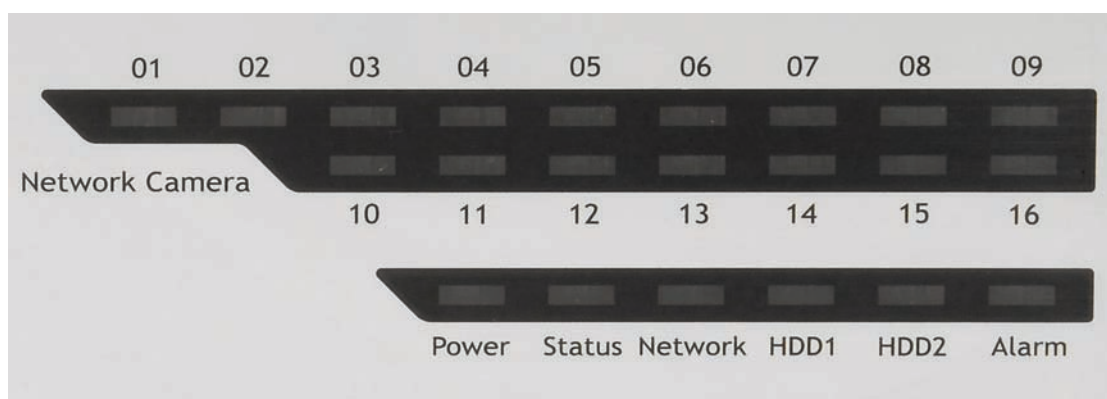
4-Channel



8-Channel



16-Channel



LEDs Definition

HDD x 2	Green	Solid green when the hard disk is mounted and being accessed.
	Red	Solid red for disk fail.
	Amber	Solid amber when recording is in process. Blinking when recycling.
Network	Amber	Solid amber for activity on a 1Gb network.
	Green	Solid green for activity on a 10/100 Mb network.
Status	Amber	Blinking during firmware upgrade.
	Green	Shows solid green for normal operation. Blinking green when firmware upgrade is done.
	Red	Flashes red for failed firmware upgrade.
Power	Green	Normal operation.
	Red	System off (power adapter remains plugged in).
	Amber	Blinking amber, indicating device is initialising.
Alarm	Red	Blinking when an alarm occurs.
	None	When alarm is reset.

Camera LED	Green	Solid green, live connected with no event or recording activity.
	Amber	Blinking amber, manual or event recording is being performed.
	Amber	Solid amber, schedule or continuous recording is being performed.
	Red	Recording is set but no video from camera.

Connect to the NVR

There are various ways you can connect to the NVR. The suggested methods for network setup are shown below:

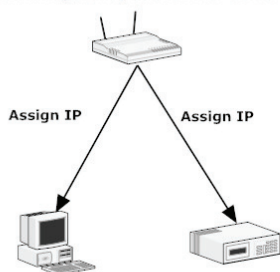
- The NVR is placed in a network with a DHCP server: Connect to the NVR by using **"Device Search" Utility**.
- The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access the NVR with its default IP.**

Use Smart Device Search Utility

If the NVR is on a corporate network, or a local area network where a DHCP server is already present. Run the "Smart Device Search" utility from a computer which is on the same network, and locate the NVR via its IP address assigned by the top-level DHCP server.

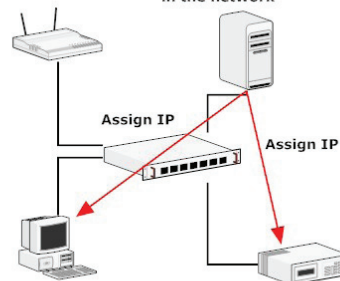
1.

Network gateway as the DHCP server

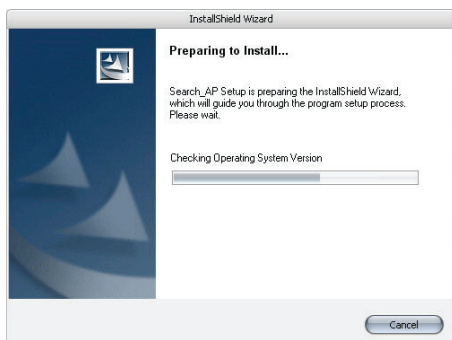


2.

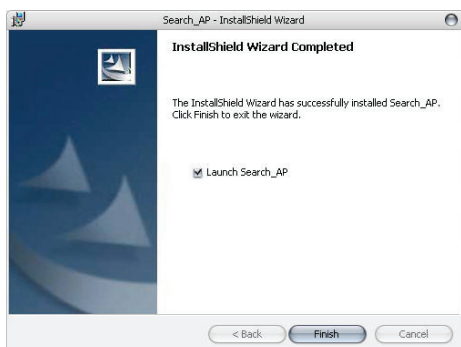
A separate DHCP server in the network



To begin, launch the "Device Search" utility from the CD and proceed with the installation:



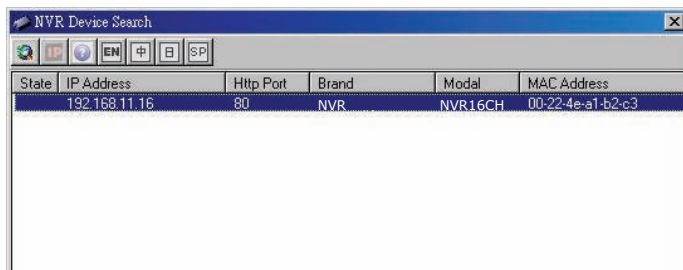
Once the installation is complete, check the "Launch Search AP" option and click "Finish":



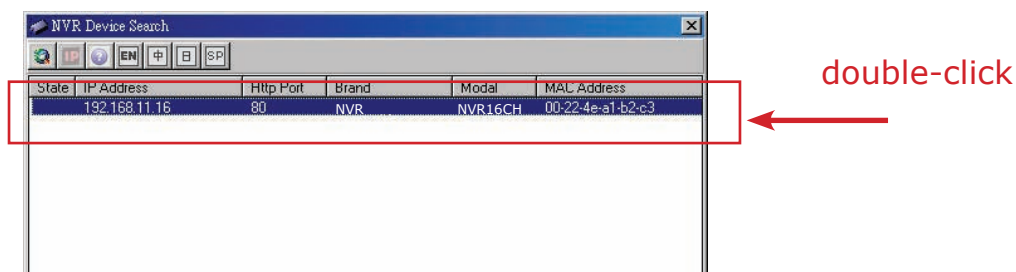
The search starts automatically and its status is displayed:



The NVR should be located and its IP address displayed:



Double-click on an NVR and the search program automatically accesses the NVR's web administration page from your default browser .

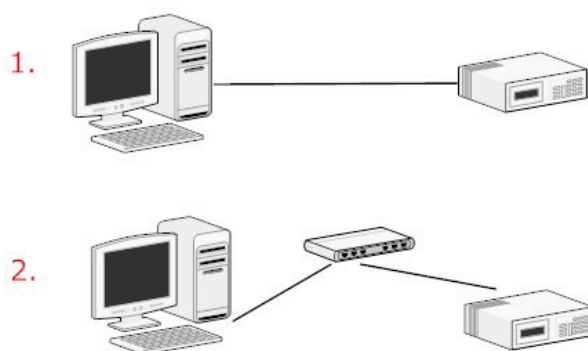


You will be prompted for the the NVR's username and password.
Enter its default username "**admin**" and password "**00000**" and
then click "OK" to enter the system.

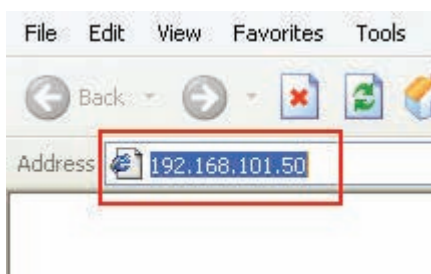


Access the NVR with its default IP address

The NVR comes with a pre-configured static IP "**192.168.101.50**". However, it's only used when there is no DHCP server present in the network. The NVR turns on its DHCP server function and acts as the DHCP server in the network. To connect to the NVR, use a PC that is on the same network via a switch or hub, or connect the PC directly to the NVR using a crossover Cat 5/6 Ethernet cable.



The PC connected directly to the NVR (or within the same local area network) should receive an IP from the NVR. Simply access the NVR from your web browser with its IP address.



Again, you should be prompted for the username and password. Enter its default username "**admin**" and password "**00000**" and then click "OK" to enter the system.



Set up Password

The default login username and password is admin/00000. To change the password of the admin account, go to "Setup" --> "System Configurations" --> "User Account", click on the "admin" account in the account list and press the "edit" button to change its password. Finally, click "Apply" to save the changes.

SETUP

System Configurations

- Network Settings
- Time and Date
- User Account**
- Group Privilege
- Disk Setup

Camera Configurations

Embedded NVR

Network Video Recorder

1. Main View | E-MAP Monitor | **Setup** | Channel Status
System Time: May 07, 2009 10:24:34
User: admin

2. **System Configuration**

- Network Setup
- Time and Date
- User Account**
- Group Privilege
- Disk Setup
- Channel Configuration
- Event Configuration
- Recording Configuration
- System Options

User Account Setting

User Name	Group	Description
admin	admin	
quest	quest	sc
joser	supervisor	eng
hunt	opera	tc
view1	VIEWER	japan

3. Add User

User Name: Only A-Z, a-z, 0-9 and _ are allowed

Password:

Confirm Password:

Company: (Optional)

Department: (Optional)

Telephone: (Optional)

Mobile: (Optional)

E-Mail: (Optional)

Group:

Language:

Description: (Optional)

User Name	Group	Description
admin	admin	
quest	quest	sc
joser	supervisor	eng
hunt	opera	tc
view1	VIEWER	japan

Edit Remove

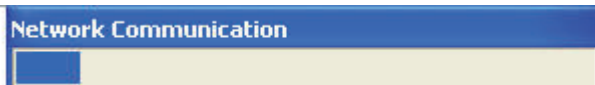
Add a Camera

Automatic Search:

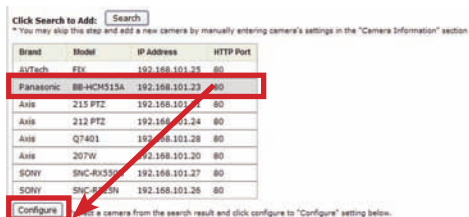
1. Click the "Search" button to perform the camera search. You should be prompted to install the Active Control component so the search functions properly. Go ahead and click "Install".



2. After that, the search should begin and its status displayed:



3. Found cameras are listed. Simply select a camera from the list and press "Configure".



4. Its corresponding information is displayed in the "Camera Information" section. Enter the username and password, select the channel ID and name the camera.



5. Click on "Detect" to establish connection between the recorder and the camera. If the connection establishes successfully, the camera's detailed information is polled and displayed as below:

Detect Once you fill out above information, click "Detect" to retrieve camera settings

Additional Camera Information

Audio Port: 80

Video Port: 554

Live video Format: MJPEG

Live Video Frame Rate: Full

Live Video Resolution: 4CIF

Live Video Quality: 5

Add

6. Adjust the video format, frame rate, resolution & bitrate...etc if you wish and then click "Add" to finish adding the camera.

Add a camera manually

Simply follow the instructions described above but instead of using the "Search" function, enter the camera's IP address and credentials in "Camera Information" manually and then follow steps 5~6 described above.

Add a new Camera:

2.

Channel ID: 15

Camera Name: cam15

Group: 4

IP Address: 192.168.101.21

User Name: root

Password: ****

HTTP Port: 80

1.

Detect Once you fill out above information, click "Detect" to retrieve camera settings

Enter manually

Recording Configuration

The "recording configuration" gives users the overall control of how and when a recording is performed, and the quality of different types of recordings performed on each channel. It can help the recorder to operate with sufficient system resource by performing recording only when it's necessary, with adjustable recording frame rates.

General Settings

- You can define the following in "General Settings":
- Pre-Alarm/Post-Alarm recording length.
- Recording frame rate.
- Enable/disable different recording types on different cameras.
- Enable/disable audio recording.

NVR Setup

- System Configuration
- Channel Configuration
- Event Configuration
- Recording Configuration
- General Setting
- Schedule Recording Setting
- System Options

Pre-Alarm Buffer: 3 Seconds

Post-Alarm Buffer: 10 Seconds

Recording Frame Rate

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	1	1	1 Only	5	1	1 Only	1	1 Only	1 Only	1	1	1	1 Only			
Schedule	5	5	1 Only	15	5	1 Only	5	1 Only	1 Only	5	5	5	1 Only			
Event	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
Manual	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full

Keep Video

☒ Keep the previous 2 days of recorded videos

Camera Recording Setting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Record Audio

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Apply Cancel

The "recording buffer" allows users to define "pre-alarm" and "post-alarm" times for event recording. The "pre-alarm" time sets the NVR to record in advance, when an event is triggered. The "post-alarm" time sets the NVR to continue recording for a period of time after an event trigger has finished.

Recording Buffer

Pre-alarm Buffer: sec

Post-alarm Buffer: sec

* The "Pre-alarm" function only works when the "Continuous" recording is also activated.

Recording frame rate allows you to set different frame rates for different types of recording, instead of recording only at one frame rate. Use the drop-down menu and select one of the pre-defined frame rates for a particular recording type.

Recording Frame Rate																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	1	I Only	1	I Only	1											
Schedule	5	I Only	5	I Only	5											
Event	Full	Full	Full	Full	Full											
Manual	Full	Full	Full	Full	Full											

The “Camera Recording Setting” section allows you to turn on or off a particular recording type on any channel.

Camera Recording Setting																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Event	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											

The section at the bottom of the page allows you to disable audio recording (record video only) of particular channels.

Record Audio																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	<input type="checkbox"/>															

Schedule Recording

Here you can define the time range of the schedule recording for all channels.

To configure a schedule recording:

1. Use the "Camera" drop-down menu and first select a camera.

Camera:

2. You can use the schedule table to set the time range. Clicking the cell boxes and moving the cursor horizontally lets you set what hours to perform recording during a day. Clicking and moving vertically lets you set what days to perform recording at a specific time.

Schedule Table																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

Clear

Clear

* Each cell box represents 15 minutes of time. Click one or more boxes for consecutive recording.

3. You can also use the “Quick Configuration” to define the recording time range, instead of clicking cell boxes one by one on the time table. Simply check what days you would like to perform recording and specify the recording duration, by either choosing “All Day” or enter a start and end time for a specific recording duration.

Quick Configuration**Days**

☐ Mon. ☐ Tue. ☐ Wed. ☐ Thur. ☐ Fri. ☐ Sat. ☐ Sun.

Duration

☐ All day

☐ During

Start Time: 00:00

End Time: 00:00

4. Select the “Copy to” option if you would like to set the same recording schedule for another camera.

☒ During Start Time: 00 : 00 End Time: 00 : 00

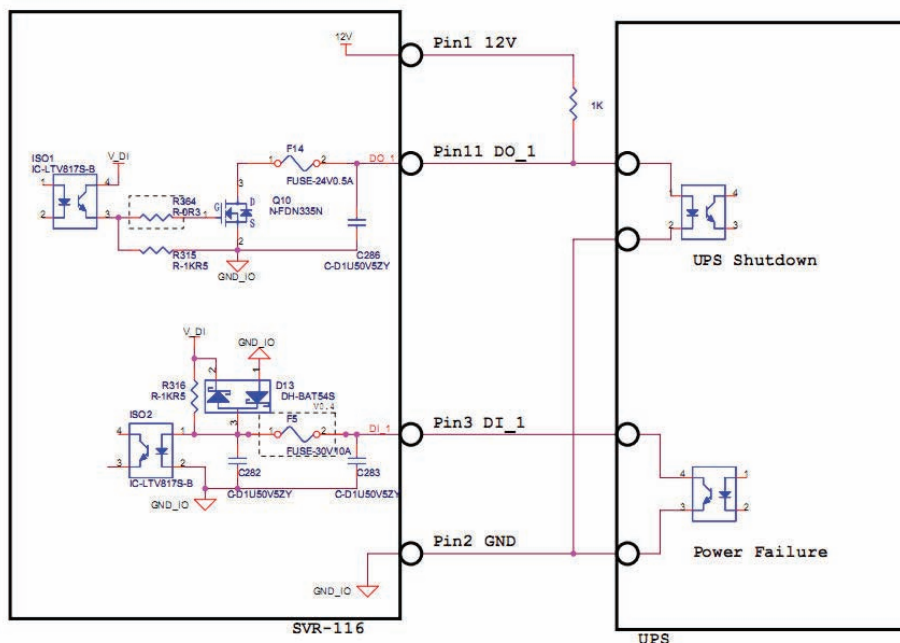
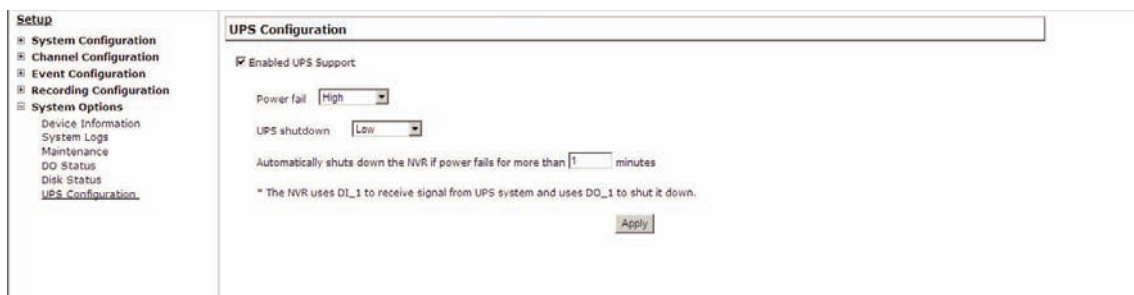
Copy Schedule To Channel:

Apply

UPS Configuration

Connect the UPS to the NVR's DI/DO port to send and receive signals between the UPS and the NVR. Refer to the diagram below to connect the UPS RS-232 interface to the NVR's DI/DO port.

The NVR can receive a signal from the UPS when there is a power failure and shut down automatically within a set period of time.



*** The NVR uses DI_1 to receive signal from UPS system and uses DO_1 to shut it down.**



GENIE CCTV LTD.

CCTV House, City Park, Watchmead, Welwyn Garden City, Hertfordshire, AL7 1LT
Tel: +44(0)1707 330541 Fax: +44(0)1707 330543 Web: www.geniecctv.com

EDITION: GN-November 2011